[illegible]37[illegible] [illegible]

1[illegible]x[illegible]$e^{2x}-a\ln x\geq\frac{1}{2}a$[illegible]$a$[illegible]

2[illegible]$f(x)=e^x-ax$[illegible]e[illegible]a[illegible]

[illegible]1[illegible]$f(x)$[illegible]0[illegible]a[illegible]

[illegible]2[illegible]$x\in[0,\frac{\pi}{2}]$[illegible]$f(x)\geq e^x(1-\sin x)$[illegible]a[illegible]

3[illegible]$f(x)=e^x+a\cos x(e$[illegible]

[illegible]1[illegible]$f(x)$[illegible]$x=0$[illegible]$P(1,6)$[illegible]a[illegible]

[illegible]2[illegible]$x\in[0$[illegible]$\frac{\pi}{2}]$[illegible]$f(x)\geq ax$[illegible]a[illegible]

4[illegible]$f(x)=a\sin x(a\in R)$[illegible]$g(x)=e^x$[illegible]

[illegible]1[illegible]$g(x)$[illegible]$x=0$[illegible]

[illegible]2[illegible]$a=1$[illegible]$G(x)=f(x)+\ln x$[illegible]$(0,1)$[illegible]

□3□□ $F(x)=\frac{f(x)\cdot g(x)}{a}(a\neq 0)$ □□□ $x\in[0,\frac{\pi}{2}]$ □ $F(x)\geq kx$ □□□□□□ k □□□□□□

5□□□□□ $f(x)=ax^2-e^{x-1}$ □

□1□□ $a=\frac{1}{2}$ □□□□□ $f(x)$ □ R □□□□□□

□2□□ $x\in[0,\frac{\pi}{2}]$ □□ $f(x)\leq a\cos x$ □□□□ a □□□□□□

6□□□□□ $f(x)=\frac{1}{3}x^2-\sin x$ □

□1□□□□□□ $f(x)$ □□□□□□

□2□□□ $\forall x\in[0,\frac{\pi}{2}]$ □□□□ $e^x+a\cos x\geq ax^2$ □□□□□□□ a □□□□□□

7□□□□□ $f(x)=e^x+a\cos x-\sqrt{2}x-2$ □ $f'(x)$ □ $f(x)$ □□□□□

□1□□□ $f'(x)$ □□□ $(0,\frac{\pi}{2})$ □□□□□□□□

□2□□ $x\in[-\frac{\pi}{2}$ □ $0]$ □□ $f(x)\geq 0$ □□□□□□□ a □□□□□□

8□□□□ $f(x)=e^{x}\cos x$□$g(x)=e^{2x}-2ax$□

□1□□ $x\in[0,\frac{\pi}{3}]$□□□ $f(x)$□□□□

□2□□ $x\in[0$□$+\infty)$□□□□□ $g(x)\geq\frac{f(x)}{e^{2x}}$□□□$($ $f'(x)$□ $f(x)$□□□□□□□□□ a□□□□□□

9□□□□□ $y=f(x)$□□□□ R□□□□□□□ $x>0$□□ $f(x)=\frac{\ln x+k}{e^{x}}$□□□ $y=f(x)$□□ $(1$□ f□1□$)$□□□□ x□□□□ $f'(x)$□

$f(x)$□□□□□

□I□□ k□□□□ $x<0$□□□□ $f(x)$□□□□□□

□II□□ $g(x)=(x^{2}+x)\cdot f'(x)$□□□□ $x>0$□□□ $g(x)<1+e^{-2}$□

10□□□□□ $f(x)=e^{x}-ax^{2}$□$a\in R$□

(I)□$a=1$□□□□□$(0,1)$□□□□$y=f(x)$□□□□□□□□

□2□□□□$f(x)$□$(0,+\infty)$□□□□□□□□□□□□□a□□□□□□

11□□□□$f(x)=(x-1)e^{x}-x^{2}$□$g(x)=ae^{x}-2ax+a^{2}-10(a\in R)$□

□I□□□□$y=f(x)$□$(1$□f□1□$)$□□□□□□

□II□□$x>0$□□$f(x)>g(x)$□□□□□□a□□□□□

12□□□□$f(x)=ae^{x}+b\cos x+\frac{1}{2}x^{2}+1$□□□$a$□$b$□□□□□□□$(0$□$f(0))$□□□□□□$y=x+1$□

□1□□□a□b□□□

□2□□□$g(x)=f'(x)-3x$□□□□

□3□□□□□$x\in R$□□□$xf(x)\ldots\frac{3}{2}x^{3}+2\lambda x^{2}+x$□□□□□□$\lambda$□□□□□